PS-900

Soldering System

OK INTERNATIONAL™

INITIAL SETUP

The PS-900 Soldering System consists of a Power Supply, Workstand with Cradle and Sponge, and a Soldering Handle. The soldering handle also houses a replaceable Coil Assembly and replaceable heater tip. Both of these consumables are available from your authorized OK International distributor as needed. The power supply features a Power Switch, green "Power On" indicator light, power cord, and a connecting port for the solder handle cord.

1. Mount the power supply in a convenient location in your workspace, such as on the workbench.

2. Insert a heater tip onto the Coil Assembly and simply push the Heater Tip all the way until it seats. You should feel a slight "click" as it locks into place.

Insert Tip onto Coil Assembly

3. With the power "Off", attach the solder handle cord to the power supply by inserting the cord connector into the power supply connecting port. To align the 3 pins, position the flat side of the cable connector toward the 9 o'clock position of the power supply.

4. Wet the sponge with de-ionized water until it is moist but not soaked. Then place it in the workstand tray.

5. Plug the power cord into a grounded wall socket of the appropriately rated input line voltage. To turn the unit on, push the switch (located on the front of the power supply) until it latches. The green indicator light should light up. If it does not, see the "Troubleshooting Guide" in this manual.

CAUTION: To provide continued protection against the risk of electric shock, connect only to <u>properly grounded</u> outlets.

SMARTHEAT ®: NO CALIBRATION REQUIRED

The PS-900 System is comprised of an induction coil assembly and a heater tip. Each heater tip is equipped with a self-regulating heater which 'senses' its own temperature and tightly maintains its pre-set idle temperature for the life of the heater-tip; all controlled by OK International's proprietary SmartHeat® technology. The tip temperature is determined by the inherent metallurgical properties of the heater; no external adjustment or equipment is required. The power delivered to the tip automatically varies in direct response to the thermal load. This eliminates spikes and transients associated with electrically switched elements found in conventional soldering irons. Please feel free to contact your OK International representative with any questions.

SPECIFICATIONS

Power Supply

Ambient Operating Temperature	10 - 40°C
Maximum Enclosure Temperature	65°C
Input Line Voltage	100 - 240 VAC
Input Line Frequency	50/60 Hz
Power Consumption	90 Watts max.
Output Power	60 Watts max. at 22°C ambient temperature
Output Frequency	470 KHz
Power Cord (3-wire)	183 cm 18/3 SJT
Dimensions (approx.)	W = 80 mm (3.1"), D = 160 mm (6.3"), H = 115 mm (4.5")

Soldering Handle and Coil Assembly

Tip-to-Ground Potential	< 2 mV True RMS, 50-500 Hz
Tip-to-Ground Resistance	< 2 ohms DC, unit on
Idle Temperature Stability	± 1.1°C in still air
Handle Cord Assembly Length	122 cm – burn proof, ESD safe
Connector	3-pin power connector
Dimensions (approx.)	
Overall length (with tip)	230 mm (9.06") with standard tips
Grip diameter	13 mm (0.51")
Tip to grip	58 mm (2.28")
Tip shaft diameter	8.0 mm (0.31")
Tip length	82 mm (3.23") to 93mm (3.66") (typical)

Workstand

Dimensions	W = 105 mm (4.1"), D = 175 mm (6.9"), H = 90 mm (3.5")

WARRANTY

Please visit OK International's products web page (www.okinternational.com) where you will find available information on systems, tips, accessories, technical notes, and more. You may also contact your local OK International representative for pricing and availability.

OK International warrants the PS-900 power supply and Handle cord assembly against any defects in materials or workmanship for one (1) year from the date of purchase by the original owner. This Warranty excludes normal maintenance and shall not apply to any opened, misused, abused, altered or damaged items. If the product should become defective within the warranty period, OK International will repair or replace it free of charge at its sole option. The replacement item(s) will be shipped, freight prepaid, to the original purchaser. The warranty period will start from the date of purchase. If the date of purchase cannot be substantiated the date of manufacture will be used as the start of the warranty period.

SERVICE AFTER WARRANTY

OK International will repair or replace (at OK International's sole option) a PS-900 Power Supply that fails in normal use within one year (1) year after the expiration of the one-year warranty at the then current repair or exchange rate. To return a failed Power Supply for repair or replacement, follow the steps outlined below. This repair/replace offer does not apply to any previously opened, modified, repaired, altered, misused or damaged Power Supply.

REPLACEABLE PS-CA3 HEATER COIL ASSEMBLY WARRANTY

OK International warrants the coil assembly against material and workmanship defects for a period of 30 days.

REPLACEABLE TIP WARRANTY

OK International warrants that the heater-tip will operate according to specifications for the lifetime of the tip plating. A heater tip that fails to heat during the lifetime of the plating will be replaced at no charge. For replacement contact your local retail supplier. Because tip plating is mainly dependent upon the user's application and practices, tips are not warranted for plating wear. Heater-tips are warranted against any defects in materials or workmanship. Misused, abused, altered or damaged tips are not warranted. All heater-tips that fail to heat will be repaired or replaced at OK International's option. For returns follow the steps outlined below.

RETURN PROCEDURE

Please contact your local OK International Representative for return procedures and policies.

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